DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SUPPLEMENTAL SPECIFICATION

Section 211—Bridge Excavation and Backfill

Delete Subsection 211.3.05.D and substitute the following:

D. Backfill Construction

Follow these requirements when backfilling:

1. General

   Backfilling is a part of the work of excavation, except as noted.

   a. Place the backfill in layers not exceeding 1 ft (300 mm) of loose material. Compact the layer before placing the next layer.

      Backfill around all substructures except those located within the banks of a stream at normal water level.

   b. Do not jet backfills.

   c. Place backfill material to apply only balanced horizontal loads to a newly placed structure or portion of structure.

      Do not backfill portions of structures that do not have backfill on all sides until the concrete has reached the required strength (as determined by the Engineer) to withstand the earth pressures.

2. Intermediate Bents and Piers

   Compact backfill for intermediate bents and piers to the approximate density of the surrounding soil.

   a. Begin and complete backfilling around substructures not supported by piling the next workday after placing the lift, if possible. Backfill at least within three calendar days after placement.

   b. Backfill footings before beginning form work on the columns.

   c. Begin backfilling around pile-supported footings and columns after removing forms. Complete as soon as possible but within five calendar days after placing concrete.

3. End Bents and Abutments

   Compact backfill for end bents and abutments (including their wingwalls) to the density shown on the Standard Plans or Special Plans.

   a. Begin and complete the work no later than five calendar days after placing concrete, unless other time limits are indicated on the Plans.

      If other time limits are indicated, this work may be second stage construction or second stage backfill construction.

   b. Step slopes behind abutments, unless otherwise shown, and take precautions to prevent the backfill from wedging against the abutment.

   c. Provide drainage behind abutments and their wingwalls as shown on the Plans.

   d. Place backfill for abutment footings and portions of walls having fill on both sides of the wall according to Subsection 211.3.05.D.4.

4. Backfill Material

   Backfill around intermediate bents and piers with material removed from the excavation, unless the material is unsatisfactory to the Engineer.

   a. Ensure that material for end bents and abutments meets the requirements shown on the Standard Plans or Special Plans.

When suitable material is not available within the immediate vicinity of the bridge within the right-of-way, locate a source acceptable to the Engineer and haul the material to the site.

b. Obtain and place backfill material necessary for end bent and abutment construction— including special backfill material used in constructing mechanically stabilized earth wall abutments.

c. Ensure that material located and hauled to the bridge site meets the requirements of Class I, Class II, or as shown in Subsection 810.2.01.A.1, unless otherwise noted. Class IIIC1 material may be used in Districts 6 and 7.

d. Ensure that porous backfill (when specified) consists of coarse aggregate size No. 57 as specified in Subsection 800.2.01, or crushed stone drainage material as specified in Subsection 806.2.02.A.

Office of Materials and Research